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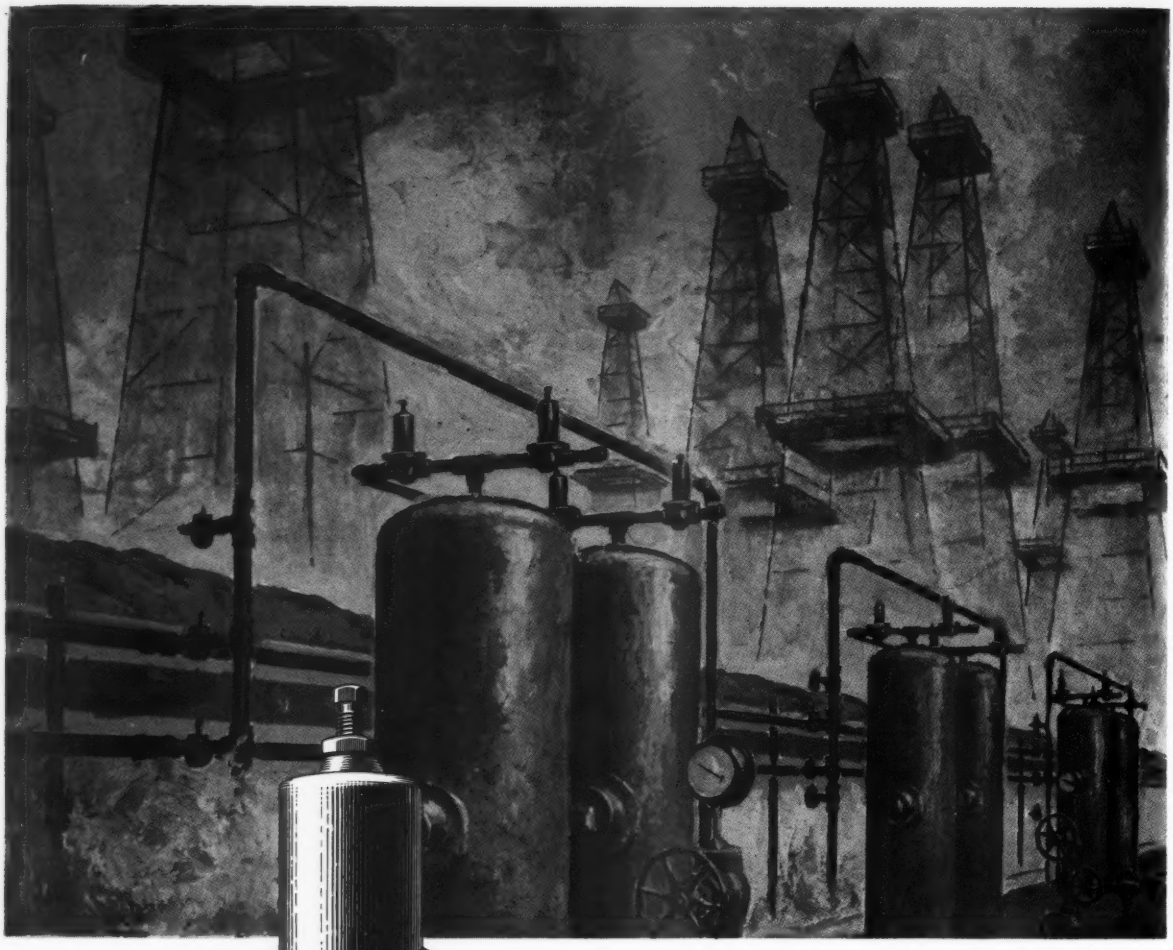

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Summary of District V Oil Industry Conditions July Preliminary 1960

By OIL PRODUCERS AGENCY OF CALIFORNIA

Highlights

While withdrawals of residual fuel from storage decreased to 2,000 b/d in June, compared with 44,000 b/d in May and a 1960 six-month storage of 53,000 b/d, any withdrawal during June, a month of low seasonal demand, points up the improvement in residual inventories since their most recent high of 34,272,000 barrels on October 30, 1958.

Since that time, and except for August of 1959 when there was a modest up-turn, uninterrupted monthly withdrawals from stocks brought the total down to 13,092,000 barrels on June 30. During the 20-month period, residual stocks decreased 21,160,000 barrels, at an average rate of nearly 35,000 b/d.

The total at the end of June, 1960—13,092,000 barrels—was only 72,000 barrels higher than on June 30, 1956. The industry has, therefore, worked off all the accumulation of residual inventories that took place in 1957 through October, 1958.

In June, gasoline stocks decreased 44,000 b/d, the largest drop in storage for any product during the month.

A summary of the U. S. Bureau of Mines District V estimate for July follows. Included is a comparison of first-half 1960 results with those of the first half 1959.

Total Supply, Demand, and Stocks

Preliminary figures for July indicate that total supply was 1,329,000 b/d, demand was 1,333,000 b/d, and stocks decreased 4,000 b/d. This decrease, 124,000 barrels for the month, would bring stocks to 117,533,000 barrels on July 31, compared with 132,068,000 on July 31, 1959. The year's decrease was 14,535,000 barrels.

Six-Month Comparisons

Total supply averaged 1,372,000 b/d during the first six months of 1960, 70,000 b/d or 5.4% more than the average of 1,302,000 b/d in the 1959 first half.

Total demand was 1,430,000 b/d in the first half 1960, 84,000 b/d or 6.2% higher than the 1959 six-month level of 1,346,000 b/d.

Stocks dropped 10,574,000 barrels, 58,000 b/d, in the first half 1960, against a drop of 7,859,000 barrels, 44,000 b/d, in the like period of 1959.

Crude Production, Imports, and Stocks

Weekly figures for July indicate that crude production was 835,000 b/d, imports were 242,000 b/d, and stocks dropped 78,000 b/d. This decrease, 2,418,000 barrels for the month, would bring crude stocks to 31,275,000 barrels on July 31, compared with 36,328,000 on July 31, 1959. The year's decrease was 5,053,000 barrels.

Six Month Comparisons

Crude production was 833,000 b/d during the 1960 first half, 12,000 b/d less than production of 845,000 b/d in the first half, 1959.

Crude and unfinished oils imports were 273,544 b/d, including 53,476 b/d of exempt Canadian, in the 1960 first half.

Crude stocks dropped 583,000 barrels, 4,000 b/d, during the first half 1960, against a drop of 1,838,000 barrels, 10,000 b/d, during the corresponding 1959 period .

Gasoline Supply, Demand, and Stocks

Preliminary figures for July indicate that gasoline supply was 595,000 b/d, demand was 647,000 b/d, and stocks dropped 52,000 b/d. This decrease, 1,612,000 barrels for the month, would bring stocks to 32,484,000 barrels on July 31, compared with 30,593,000 on July 31, 1959. The year's increase was 1,891,000 barrels.

Six Month Comparisons

During the first half 1960, gasoline supply averaged 592,000 b/d, an increase of 25,000 b/d or 4.4% over the 1959 first half average of 567,000 b/d.

Six month demand for gasoline in 1960 was 577,000 b/d, 21,000 b/d or 3.8% over the average of 554,000 b/d in the first half 1959.

Gasoline stocks increased 2,756,000 barrels, 15,000 b/d, in the first six months of 1960, compared with an increase of 2,444,000 barrels, 13,000 b/d, in the like 1959 period.

Distillate Fuel Supply, Demand, and Stocks

Weekly figures for July indicate that distillate supply was 224,000 b/d, demand was 160,000 b/d, and stocks increased 64,000 b/d. This increase, 1,984,000 barrels for the month, would bring stocks to 14,749,000 barrels on July 31, compared with 15,194,000 on July 31, 1959. The year's decrease was 445,000 barrels.

Six Month Comparisons

During the first half 1960, distillate supply averaged 202,000 b/d, practically the same as the 203,000 b/d average of the first six months of 1959.

Distillate demand increased 11,000 b/d or 5.3%, to 216,000 b/d in the first half 1960, compared with 205,000 b/d in the like 1959 period.

Stocks of distillate fuel decreased

2,492,000 barrels, 14,000 b/d, in the first half 1960, against a decrease of 388,000 barrels 2,000 b/d, in the first half 1959.

Residual Fuel Supply, Demand, and Stocks

Preliminary figures for July indicate that residual fuel supply was 256,000 b/d, demand was 212,000 b/d, and stocks increased 44,000 b/d. This increase, 1,364,000 barrels for the month, would bring residual stocks to 14,456,000 barrels on July 31, compared with 26,520,000 on July 31, 1959. The year's decrease was 12,064,000 barrels.

Six Month Comparisons

In the first six months of 1960, residual fuel supply was 283,000 b/d, a drop of 5,000 b/d or 1.6% from the average of 288,000 b/d in the corresponding months of 1959.

Residual fuel demand in the 1960 first half was 336,000 b/d, 16,000 b/d or 5.0% higher than the 320,000 b/d average of the first half, 1959.

Residual fuel stocks dropped 9,607,000 barrels, 53,000 b/d, in the first half 1960, against a drop of 5,575,000 barrels, 32,000 b/d, in the first half, 1959.

Alaska Pipeline Company First Mortgage and Collateral Trust Bonds Arranged

Alaska Pipeline Company has entered into an agreement for the private placement of $1,800,000 First Mortgage and Collateral Trust Bonds 5¾% series due February 1, 1981. Of this amount, $7,800,000 will be sold privately on September 15, 1960, and the balance is to be sold to the same purchasers during 1961-1963.

Lehman Brothers, Dillon, Read & Co. Inc. and Rauscher, Pierce & Co., Inc. arranged the financing.

The Company will use the proceeds for the construction of an 80 mile natural gas pipeline from the Kenai Peninsula to Anchorage, Alaska, and for distribution facilities in Anchorage. Construction has been started, and delivery of gas is expected by December 1960. Anchorage Natural Gas Corp., a subsidiary, has a franchise to service the city of Anchorage with natural gas. The Company has a contract with Union Oil Company of California and the Ohio Oil Company, joint owners of the Kenai Peninsula gas field, under which they are to supply all the gas required for a period of twenty years.

H. C. Smith, Chairman of the Board of Directors Smith Tool Co.

Donald E. Graham, President Smith Tool Co.

Smith Tool Co. Elects New President & Board Chairman

Donald E. Graham has been elected president of Smith Tool Co. He succeeds H. C. Smith, founder and previous president of the company, who was named chairman of the board of directors.

Mr. Graham became associated with the company in 1952. Four years later, he was appointed vice president in charge of manufacturing, and in 1957 he was named administrative vice president and was assistant to the president. In 1958, Mr. Graham was elected executive vice president, a position he has held for the past 2 years.

Domestic Results Account For Over Half of Gulf's 10% Earnings Increase

More than half of Gulf Oil Corporation's 10 per cent increase this year in its first half earnings over the first six months of 1959 occurred in the United States and resulted from increased production of crude oil and natural gas, and higher levels of petrochemicals sales.

The balance of the increase, principally from operations in the Eastern Hemisphere, was attributed to higher production of crude oil in Kuwait and Iran which more than offset the effect of crude and product price declines.

Gulf's six months' earnings, as previously reported, were approximately $156,100,000, equal to $1.56 per share, compared with about $141,800,000 or $1.42 per share for the like period of 1959.

New Domestic Distributor Appointed by Ken Corp.

Keith Bright, vice president of Ken Corporation, Long Beach, California, manufacturer of oil base drilling fluids and pak fluids, announces the appointment of a new distributor.

In the Rocky Mountain Area, Ken has appointed the United Engineering Corporation, Casper, Wyoming, to be its representative. United will cover the oil fields in Wyoming, Idaho, Utah and Colorado. Homer Brown is president, and Darrell Johnston is vice president in charge of sales and engineering services.

Occidental Acquires Property in Salida Area; To Drill Soon

Occidental Petroleum Corporation has acquired approximately 5,000 acres in the Sacramento Valley of northern California and plans to drill a wildcat well soon, it was announced by Dr. Armand Hammer, president.

The firm's new acreage is in the Salida area of Stanislaus County, approximately three miles northeast of the Vernalis gas field and five miles southeast of the recently-discovered McMullin Ranch gas field. Actual location is Section 16, Township 3 South, Range 7 East.

The test well will be drilled to a depth of approximately 7,000 feet and will probe the Blewett and Tracy sands, both currently productive at Vernalis and McMullin.

From two horses to 200-horsepower

YESTERDAY—"petroleum" was primarily kerosine, the fuel that fed the lamps and cooking stoves of America. Sold by local grocery and hardware merchants, it was delivered to them once a week. It was Texaco that first met the urgent need for twice-weekly deliveries, with its horsedrawn tank wagons. Daily deliveries soon followed.

TODAY—the chief product of petroleum is gasoline, moved swiftly from storage point to market in giant, modern tank trucks. Today Texaco's fleet of red trucks serves more than 39,000 Texaco Dealer stations across the nation. Alert marketing operations, based on service to America's motorists, have contributed to Texaco's continued growth.

TEXACO

Crude Prices Raised in Kansas

The Vickers Refining Co., a division of The Vickers Petroleum Co., Inc., announced an increase in its posted price for Kansas crude oil by 7c per barrel. This was effective August 9.

This increase will restore the price for 40 gravity crude and above to $3.05 per barrel. Vickers presently buys about 5,000 barrels per day.

J. W. Meehan, president of Vickers Refining Co., stated, "This increase in crude price has been made possible by some long overdue gains in refined product prices. So long as product prices remain strong, we will be able to pay better prices for our crude." He added, however, "Should our product prices weaken, the price we can pay for crude must also be lowered. This is as true in our business as it is with any other manufacturer and his raw material."

Jade Oil Makes Progress

The officers and board of directors are pleased to report that considerable progress has taken place in Jade Oil Company during the first six months of the current fiscal year. This is demonstrated by the substantial increases in the company's reserves, cash flow, and oil and gas sales for the period.

The increase in reserves during the past year is due to several factors: one, the joint venture program undertaken last fall with Christie, Mitchell & Mitchell in which Jade now has an approximate 10 per cent interest in 30 producing wells; two, the acquisition of Admiral Drilling Company last December; and finally, the purchase of reserves from Oil Operations, Inc. Purchase of Oil Operations, Inc. includes 31 wells located on properties in Jefferson, Ft. Bend and Liberty counties, Texas and is presently before the California Commission for approval. These transactions plus Jade's own drilling program have increased the company's number of producing wells by 309 per cent to 90 compared with 22 on December 31, 1959. Approximately 35 per cent of these wells are gas producers as compared with only a small percentage of gas wells a year ago.

Since last fall, the company has purchased an interest in over 20,000 acres of proven and semi-proven leases in the Texas Gulf Coast area, North Texas and Louisiana.

Signal Reserves Climb

Signal Oil and Gas Company's net combined proved and potential recoverable reserves of crude oil and natural gas liquids exceeded one billion barrels and one trillion cubic feet of gas as of January 1, 1960, it was announced recently in the six months' report to shareholders.

The first independent survey of the company's oil properties, conducted by petroleum engineering consultant Dean H. Sheldon, shows recoverable reserves of 590 million barrels of proved and 379 million barrels of potential oil.

The company heads pointed out that Signal, through mergers, exploration, and development, has increased its reserves to become one of the largest independent oil-reserve holders in the country.

Shell Develops New Lube Additive

An ash-free multigrade motor oil for automobile engines has been put on the market by Shell Oil Company, according to an announcement by R. D. Stetson, Los Angeles division marketing manager.

Stetson said the new product, unlike other motor oils, contains a non-metallic additive formulation that "virtually eliminates" combustion chamber deposits (ash).

The new additive is based on a polymeric dispersant, first developed by Shell for use in lubricating oils for piston-driver aircraft. The aviation lubricant, Aaroshell W, and the new non-ash motor oil are both based on a decade of research at Shell laboratories in Illinois and California.

Ed Pellegrin, Executive Vice President of Macco Corporation, and his wife, are pictured just before boarding their SAS DC-8C Polar Jet Flight to Europe recently. The Pellegrins will visit Copenhagen, Berlin, Oslo, Stockholm, Vienna, and Paris before returning to the Southland in October.

Statement by L. Dan Jones, Counsel Independent Petroleum Association of America Washington, D.C.

The government's action setting maximum residual fuel oil imports for the fourth quarter 1960, announced recently, is encouraging. Allocations for this period reflect strict adherence to the objectives of the import program, and continuing determination by government to make the program effective.

Allocations for fourth quarter residual imports totals 415,000 barrels daily, exclusive of imports for bunkering and military re-export which are uncontrolled. This compares with actual imports of 434,400 barrels daily in the fourth quarter 1959, and imports of 395,000 barrels daily in the fourth quarter 1957, the government's base year in determining imports of all finished products.

The order establishing fourth quarter allocations makes clear that government will continue its close watch of demands for residual, and expresses its intent to guard against any artificial shortages to normal consumers of this fuel. The industry and the consuming public have every reason for confidence in the continued sound administration of the imports program as evidenced by the handling of residual imports.

Conservation of Oil and Gas Legal History 1948-58

An important addition to the literature on the legal ramifications of oil and gas conservation has just been released through the headquarters of the American Bar Association in Chicago. Entitled "Conservation of Oil and Gas, A Legal History 1948-1958," it is an analysis of the significant conservation legislation, administrative regulations and judicial decisions affecting the production of oil and gas.

Thirty seven states and the activities of the federal government in the field of oil and gas conservation are treated in detail. Extracts of conservation orders treating such things as flaring of casinghead gas, the establishment of minimum prices at the well head for natural gas, the trend toward wider initial spacing of wells, and examples of voluntary and compulsory plans for the unit operation of oil pools, and water floods to stimulate secondary recovery of oil and their relation to the allocation of production according to market demand, are set forth in detail.

It supplements earlier conservation histories published in 1938 and 1948. Advisory committees in each state were consulted to assure that all significant developments and trends were discussed.

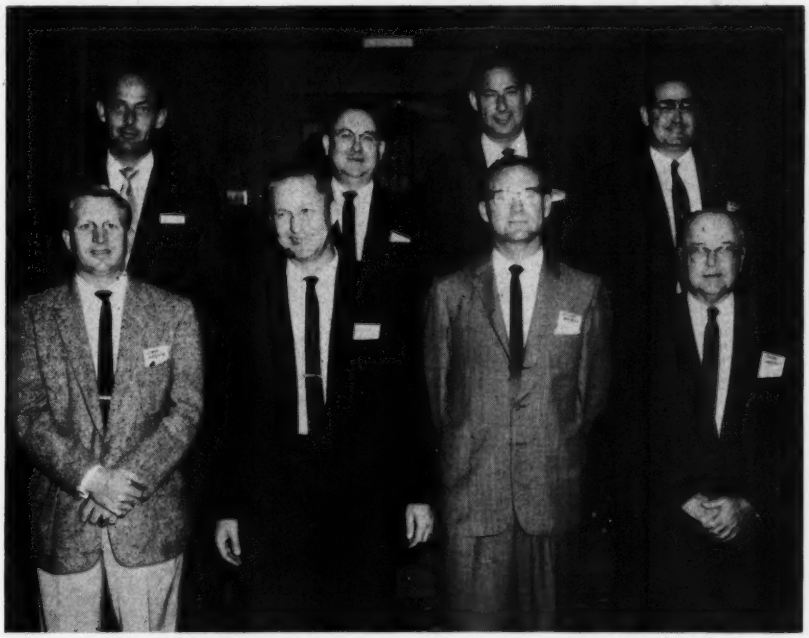
Conservation activities in the several states was written by Dean Robert E. Sullivan of the Montana State University Law School who also served as editor of the entire volume. Other selections deal with significant developments in conservation by Robert E. Hardwicke, the activities of the Interstate Oil Compact Commission by Earl Foster, and Conservation in the Federal Government by Northcutt Ely.

The book was prepared under the direction of a special publications committee of the Mineral and Natural Resources Law Section of the American Bar Association under the chairmanship of Earl A. Brown, Sr. of Dallas, Texas. It is available through the Interstate Oil Compact Commission, Oklahoma City, or the American Bar Association, Chicago.

Turner and West to Speak At 9th Annual Convention Desk & Derrick Clubs

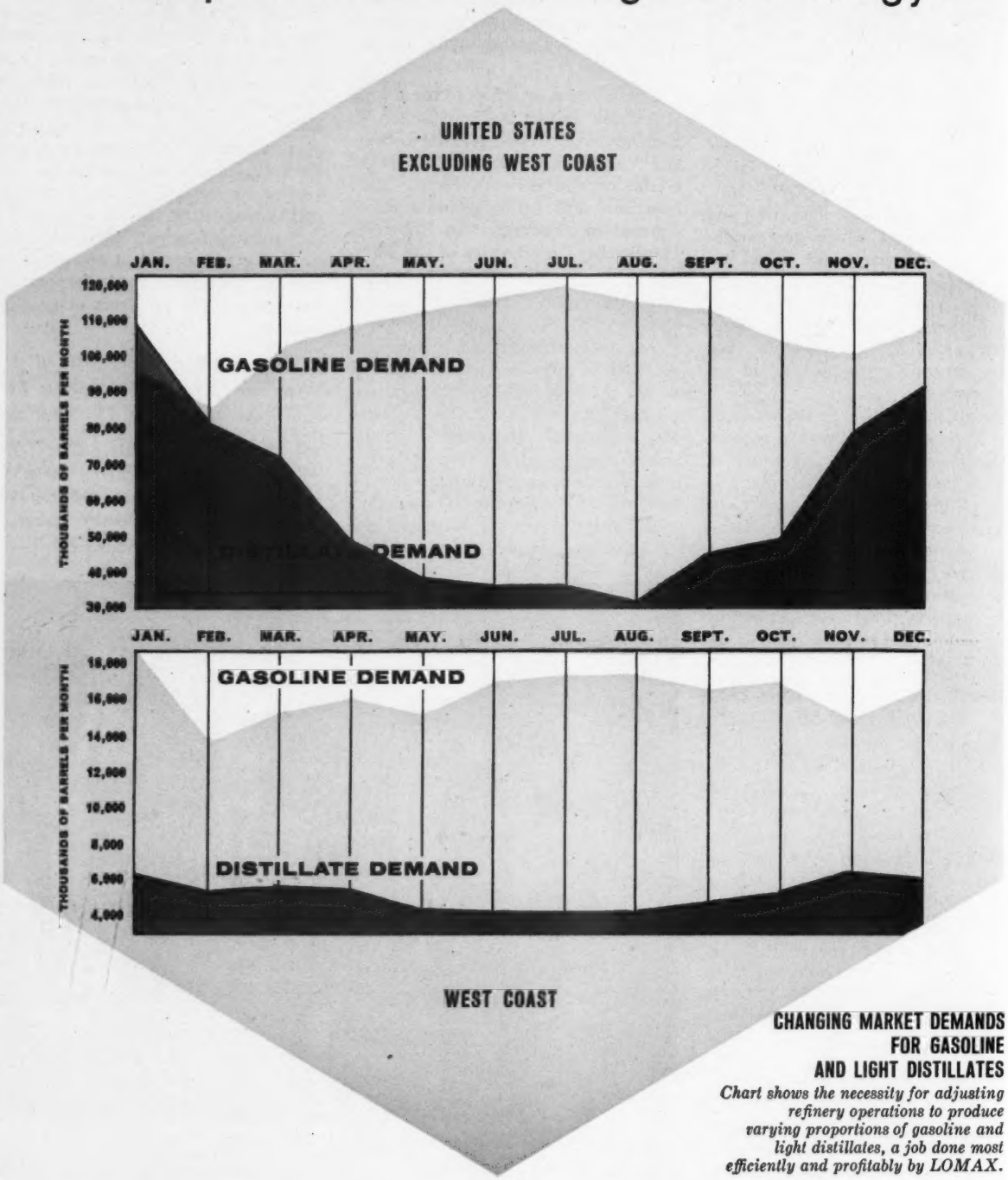
Association President Gladys Watford, Houston, Texas, announced recently that plans have been completed for the Ninth Annual ADDC Convention at the Sheraton-Cadillac Hotel, Detroit, Michigan, September 23-24, 1960. Following the keynote address by immediate past ADDC president Ellen Vaughan, Dr. K. A. West, vice-president, Canadian Oil Companies, Ltd., Toronto, Canada will address the convention on the subject of petrochemicals. Culminating the two-day parley at Saturday's banquet, featured speaker B. B. Turner, president and chief executive officer of Ethyl Corporation, will talk on the problems of gasoline taxation.

The combined experience of Dr. West and Mr. Turner extends over more than thirty years, Dr. West having been in the industry since receiving his Doctorate degree from McGill University, Montreal, in 1942 and Turner having spent his entire career in the oil and chemical industries.



INTERNATIONAL GUESTS at the August 10, 1960 meeting of the Los Angeles Chapter of Nomads. Left to right (front row) Stan Nelson of D & E from Iraq; E. E. Lay of Qatar Petroleum Co. from Qatar; George A. Waters of Qatar Petroleum Co. from Arabia; Paul Hughes of Ralph M. Parsons from Ethiopia; (back row) Everett Forte of Esso Standard from Libya; J. W. Killingsworth of Iraq Petroleum Co. from Kirkuk; Mel Cooper of Volco, Inc. from Colombia; R. B. Hearne of Cal Tex from Sumatra.

now...**a major breakthrough** in petroleum refining technology...



CHANGING MARKET DEMANDS FOR GASOLINE AND LIGHT DISTILLATES

Chart shows the necessity for adjusting refinery operations to produce varying proportions of gasoline and light distillates, a job done most efficiently and profitably by LOMAX.

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Advantages offered by LOMAX also include: Predominance of branched isomers in light hydrocarbons . . . greatly reduced quantities of light gases . . . olefin-free products . . . no catalyst deposit . . . distillates of exceptional high purity (even from sour crudes) . . . and other important benefits.

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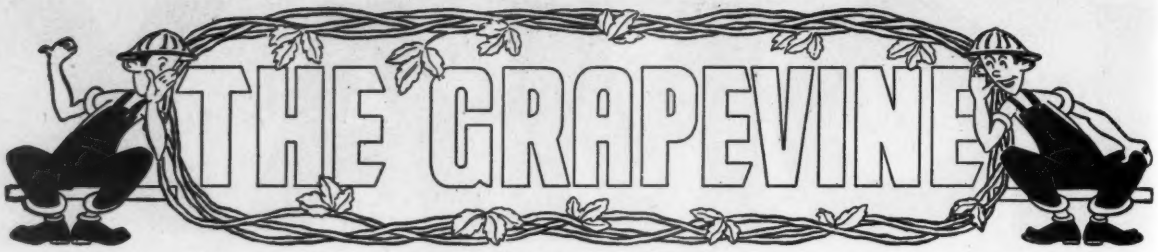


By RICHARD SNEDDON

Out Brentwood Way

On a recent Saturday evening we mounted our five-cylinder Buick and tore like a somewhat gusty wind out to 348 Canyon View Drive, Brentwood, in response to an invitation from Ted and Eve Sterling. By way of explanation, the Buick actually has eight cylinders, but a while ago one refused to work and two more almost immediately quit in sympathy, since then we have been automoting in an irregular series of leaps, vulgar regurgitations, and small angry explosions. All of this naturally prohibits the wearing of a hat or, indeed, anything else that isn't practically riveted on. Be that as it may we arrived in good time at the conventicle and once more were knocked for the proverbial loop by the sheer beauty and unique setting of the Sterling Manor and its appurtenances.

Real Estate Values

From force of habit we went in at the servants' entrance and were promptly given a tray of hors d'oeuvres to pass around but when no one was looking we parked it on a tree stump and barged right in as bold as brass. Already there were oodles of ambassadorial looking men and courtly ladies standing about in small clutches. They came from Laguna, Newport Beach, La Canada, San Marino, and Pasadena, but from snatches of conversation that floated our way, we gathered that one small flock were residents of Bel Air. They were obviously concerned about the opening up of some new section of the estates in which lots were being sold at a trifling $35,000 to $60,000. However, when we assured them that we would speak to Al Bell about it, they calmed down and seemed quite relaxed for the rest of the evening.

We Meet Our Date

As usual, of course, we were traveling stag and we were just beginning to bump into an oil man or two when up dashed Ted Sterling with our two-hour date, a lovely, vivacious redhead, Yclept, as Chaucer would have said, Robina Farmer. This interesting gal had just returned from Europe where she functioned as fashion coordinator for a group of American girls (one her own daughter) who were presented at court in The Grand Hotel in Rome. For some time, thus, she had been fussing about with Italian royalty so being tossed in with Snedderhorn must have been quite a come-down. Her husband had been with her on the European jaunt and was now returning from a later business trip to New York. Robina was going to pick him up at the airport at ten, hence the two-hour date!

Life and Gay Paree

As an escort we were a total loss but didn't feel too badly about it for this Farmer girl had more friends than a college coed with a place at the beach and a 200 ft. cruiser. They came up by the dozens and pushing us gently aside, put her through an exhausting inquisition about her trip. We refused to go away, however, and our tenacity paid off for we overheard some pretty hot stuff about life in the cafes and rathskellars of Montmartre, which we'll tell you sometime when there are no children about. By the way, Robina is a Scottish lassie, a few generations removed, and when she was over there she went up to Aberdeen, hoping to find some remnants of her family. Don't remember how many she found but on a couple of occasions at least she received banner headlines in the Aberdonean press, like for instance, " American Lady Here Searching For Relatives." This early part of our story has a sort of sad ending. Joe Moshay's band had just launched into our favorite waltz tune and we were making for the dance floor with Robina hooked on our arm when the clock struck ten. Like a dutiful Cinderella, she scampered off to the airport and we haven't seen her since.

Descriptive

But now, before going any further with this recital, let us merely remark that we sincerely doubt if there had ever been a better party arranged by anyone, anytime, anywhere. Viewing the place from the street one gets no inkling of the fairyland that lies on the other side of the Sterling Manor. The house itself is built on the side of a natural bowl that is spotted with fountains and little bubbling brooks and is almost completely roofed in by the generous foliage of a grove of tall trees. Stepping stones lead to a higher level on which are an enticing swimming pool, a dance floor, auxiliary buildings constructed largely of old derrick beams, and a spacious garden area. An entrancing vista to begin with, but when further subjected to the artistry of Ted and Eve Sterling, the total effect becomes almost indescribable. The white tables, each with its lighted candelabra centerpiece and glistening silver; huge bouquets of vari-colored flowers everywhere, even hanging from the high branches of the trees; the omni-present cocktail and hors d'oeuvres waiters; the heaped serving tables; the white-jacketed men and the gorgeously gowned ladies; all combined to form an ensemble of really unforgettable beauty.

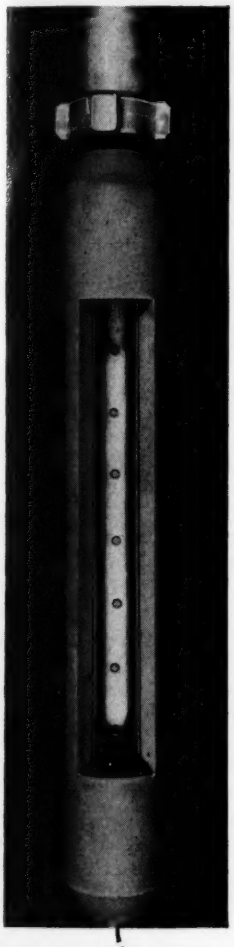
The Petroleum People

Among the petroleum people who brought their lovelies to this pleasurable consortium and enjoyed a wonderfully relaxing evening were that relaxed young consultant, Ted Bear, who also gives domino lessons on the side; Bob Smith, the La Canada advocate who excels in the accumulation of sets and re-

NEW

HALLIBURTON SAND SCREEN

combats trouble where it starts!



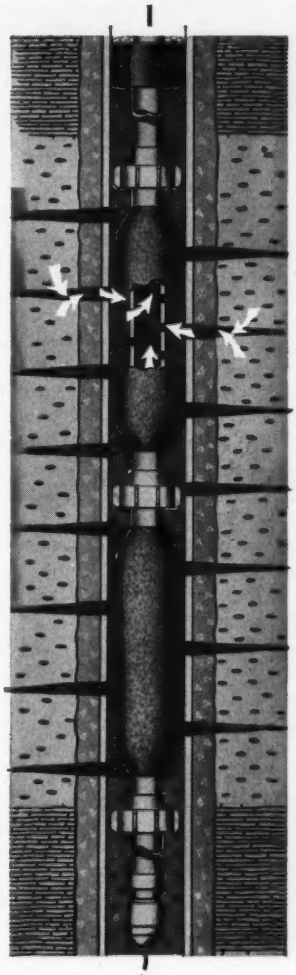
If you've been fighting a losing battle against formation sand, here's a new tool that may solve your problem.

We've cut a window in the Sand Screen pictured on the left to show you its construction. The regular screen is provided with conventional perforated tubing, as shown ... slotted type tubing is also available. That's the inside story, but the big news is on the outside.

The pre-formed screen, bonded to the inner tube, is made entirely of *consolidated sand* ... acts as a natural buffer ... is inert and compatible with most producing formations. The greater flow area provided by the sand facing tends to diffuse suspended formation sand, as shown on the right, rather than have it concentrate and restrict entry points. The bonding agent is a thermo-set resin, giving extremely high compressive, shear and tensile strength to the sand jacket — while still retaining 26% porosity over the entire face of the liner and a permeability of 23 darcies. Extensive field testing has shown beneficial results in wells with very difficult sand problems.

Halliburton Sand Screens are 6 ft. in length and are available in popular sizes for running in 4½", 5½", and 7" O.D. casing ... may also be run in open hole.

Your Halliburton man has complete details about this latest advancement from Halliburton Research ... he'll be glad to explain *Sand Screen* to you.



HALLIBURTON COMPANY

275 SERVICE CENTERS—JUST MINUTES AWAY FROM YOUR WELL DUNCAN, OKLAHOMA

quences; Read Winterburn, the affable production engineer for Union Pacific; Francis Minshall, Continental geologist and impromptu poet; Fred Bush, former Union Oil Company land procuror, recently turned sales executive; Wilbur Rankin, consultant, one of the industry's pioneer paleontologists; Dick Faggioli, local manager for Humble Oil & Refining, and one of the nicest chaps in this or any other village; John McMillan, executive vice president of Monterey Oil Co., and noted Wildcat thespian; Glen Ledingham, staff geologist of Gulf Eastern Corporation, on furlough from London, England; and John Kilkenny, chief geologist for Union Oil Company who recently ruined our chances of becoming a golf celebrity.

Also Present

Then there were Frank Parker, Signal Oil & Gas Company geologist, all decked out in the Clan Murray tartan; Ed Bartosh, consultant on geology and an authority on the five multiples; Robert McInnes, Caledonian owner of Standard's McInnes Lease at Oxnard; Bob Packer, president of Bell Petroleum Company; Sherwood Chillingworth, administrative assistant to Rollin Eckis over at Richfield; Bert Gibbons, general counsel for the 7600; Earl Hightower, oil attorney, currently president of the Petroleum Club of Los Angeles; Joe Hudson, vice president in charge of production for Monterey Oil Co., also a Wildcat of note; Jim Kimble, popular prexy of State Exploration Company; Don Ingersoll, the ditto vice president of the ditto ditto; Richard Outcault, Standard Oil Company barrister; Ace Riedel from the contracts division of Standard's production department; Fred Vandenberg, chief geologist for Kern Oil Company, and easily one of our favorite people; Howell Williams, Jr., high ranking Texaco sales whiz; Donald Ford, well known oil attorney; and James C. Kelley, partner in the firm of Hillman-Kelley and past president of the Petroleum Club of Los Angeles.

The Stimulative Effect

And that is by no means all. Others who came, saw, and were amazed are Marcus De Witt Leh, former General Petroleum (now Mobil Oil Co.) executive; Milton W. Lewis, geological consultant, oil property evaluator, and authority on the law of probabilities; Lowry Lytle, independent oil operator who, bless his soul, turned out to be an ardent reader of our Lore & Lingo column; and Dick Sawyer, the Sterling's son-in-law, and a power in the Sawyer Exploration Company. There were undoubtedly others from the derrick groves and if so, there is little we can do but apologize to them. We should apologize, too, for our failure to describe the interior of 348 Canyon View Drive which we toured with Jim and Peggy Kelley as our guides, and found just as fantabulous as all the rest. It was nice to see Bill Williams, the other Sterling son-in-law, and his lady love again, and to meet Curt Massey, the Bert Singletons, and all sorts of friendly folk. So once more our thanks to Ted and Eve and their two lovely daughters for a thoroughly enjoyable experience. And just to indicate how stimulating such things can be, we are already searching for a new Castaic or even a little Cuyama, in order that we ourself can begin entertaining soon on a more pretentious scale.

Alvin Zwerneman

Dutch Sells Out

Alvin "Dutch" Zwerneman tells us that he has disposed of his interest in the Atlas-Bradford Company, holding organization for Atlas Pipe Inc., Bradford Supply Company, Hardy & Griffin Engineering Corporation, and Universal Inspection and Testing Company, and is now a free agent. The severance became effective August 31, 1960, and Dutch and Ruby are already on a vacation trip to the Orient, on which they are accompanied by Fred and Mary Ann Currie. When they return about the middle of October, Dutch plans to open an office in Houston, Texas, as a consultant on critical components procurement, specialized types of sales programs, and a variety of oil and equipment sales matters. Dutch is undoubtedly one of the best known petroleum equipment personalities in the country. A native of Bartlett, Texas, he began his career with Gulf Oil Corporation in Houston and after a hitch in the army during the first world war, skipped to Arkansas Fuel Company for which he covered the oilfields circuit in Arkansas, Louisiana, Texas, Oklahoma, Kansas, and New Mexico.

Some History

In 1927 he joined Axelson Manufacturing Company and, having garnered some further Mid-Continent experience, was transferred to California. Here he was soon recognized as a top echelon sales executive and served for many years as Vice President and Sales Manager of the firm. He left Axelson to go into business as a manufacturer's representative but shortly thereafter returned to Houston and with his nephew founded Atlas Pipe Inc., of which he later became president. Under his direction, Atlas facilities were greatly increased and its scope of operation much expanded. Now that he has disposed of his interests he is well accoutered to enter the consulting business. He is thoroughly informed on all phases of drilling and production techniques and the metals and materials involved. He is a popular member of the Los Angeles Petroleum Club and that ultra exclusive little coterie, the Nineteeners, on the roster of which are some of America's leading industrialists. Always an effervescent sort of a chap. Dutch has more en-

ergy than a hydrogen bomb and is an infallible enlivener of proceedings regardless of whether he happens at the moment to be bent on business or pleasure.

Jim Leovy Is Injured

We have just had word that Jim Leovy, recently retired legal counsel for Western Gulf, was run down by a truck in Cuernavaca while vacationing there with his son, Jim, Jr. At the moment we are not too sure of the extent of his injuries but have been led to understand that he sustained a broken hip and perhaps a fractured pelvis. He was flown back as speedily as possible and is now in the Little Company of Mary Hospital at Torrance where we hope he will soon get over the shock and pain of a devastating experience and get started on his way to complete recovery. Jim is secretary emeritus of the Petroleum Club and if the well wishing of friends has any influence on the healing processes, it shouldn't take long for him to be up and around again for there are many who are pulling now for a speedy return to his customary health and vigor.

Bits of This and That

By way of last minute round-up, we attended the opening of the 59th Branch of the Citizen's National Bank in the Tishman Building at Wilshire and Flower where we had a delectable lunch and met another concourse of interesting people, for example, Phil Magruder, the always affable and pleasant Mobil Oil Co. executive; Dave Day, the much traveled vice president of Richfield, also a friendly and good to know person; Ken Norris, the Norris Thermador magnate, and high elevation Nineteener; Nick Van Wingen, consultant on production and engineering problems; Harold Osborne, Gordon Campbell, and Jim Jackson from the Comptroller's department of Mobil; Jim Mallott, the rising Continental Oiler; John Douma, the Sunray Chieftain out this way; Dick Faggioli, the Humble top hand; Ken Kendrick, the noted Chevronite, who is perhaps the best known oil man in Southern California; John McMillan, executive vice president of Monterey Oil Company; L. C. "Steve" Stevens, vice president in charge of exploration and production for Mobil Oil Company; Lou Erlich, president of Coast Exploration Company; Stark Fox, executive vice president Oil Producers Agency of California; Bob Smith, the ubiquitous barrister; and, of course, such distinguished members of the Bank staff as Vice President, R. L. "Lou" Hock; Special Representative, Jack Mills; and Assistant Vice President Joe Monte who took us behind the scenes into the vaults and other ordinarily verboten areas so that we could do a thorough job of casing the joint. It was all very impressive and we were completely convinced that Citizen's National Bank is in a real healthy state of development.

R. Paul Huggins

More of the Same

Fritz Taves is just back from a 17,000 mile trip covering North and South America, and is rather happy that he missed the Chilean earthquake by a few hours. Al Bailey, the Taft Axelsonian is basking about all over the country, and has been seeing a lot of his old oil friends in Texas and Louisiana. Tony Endres formerly of Mobil Oil Co. has organized The Endres Company, located at 1052 West 6th Street, for the purpose of counseling on public relations, and other similar matters.

Paul Huggins Passes

As we go to press comes the sad news of the recent death of R. P. "Paul" Huggins in Houston, Texas. Paul was a grand person with whom we first became acquainted at one of the early Petroleum Accountants Society meetings. He was a native of Tennessee but while still very young migrated to Gainesville, Texas, where he studied banking and accounting in both of which he developed unusual proficiency. He began his association with Gulf Oil Corporation in the accounting department at Houston in 1921 and shortly thereafter was appointed general accountant for Gulf Production Company in that area. Following some important assignments in Mexico he was moved to Los Angeles where he eventually became vice president in charge of Western Gulf Oil Company here. Under his direction the firm was responsible for the Oak Canyon and Paloma discoveries. He personally was largely responsible for the unitization of Paloma and for a number of years was chairman of the Paloma Operators Committee. He moved to Pittsburgh in 1951 as vice president in charge of Crude Oil & Products Supply, and retired in 1958. From that time until a few months prior to his passing he had functioned as consultant for the Permian Oil Company of Houston.

Memberships

Paul was the first president of the Petroleum Club of Los Angeles and carried the No. 1 membership card. In his younger days he played semi-pro ball with a North Texas aggregation, but finally gave that up for golf. He was a member and past president of the Nineteeners, and played mostly at the Wilshire Country Club here of which he was also a member. Industrywise he was past president of the Oil Club; a director of Western Oil & Gas Association; and held various offices on the Conservation Committee of California Oil Producers. In 1950 he attended the Harvard Graduate School of Management and in general was by all means one of the busiest men in the oil industry. He was inclined to be somewhat serious minded at times, but he flashed an easy smile, enjoyed singing in an impromptu quartet and was excellent company when the occasion was right. He was widely known and much admired throughout the oil country here and in the Mid-Continent, and he made a host of friends who in his passing suffer, as we do, a distinct sense of personal loss.

FOUR WAYS TO HELP STOP LOST CIRCULATION

When the returns stop, trouble for the drilling contractor or well owner begins. Here's how Halliburton has helped operators all over the world regain circulation in drilling and casing cementing operations:

1. **BLOCKING** channels causing circulation loss with flaky, fibrous, granular or gelling additives to mud or cement.

2. **LIGHTENING** the slurry column to decrease the pressure which forces it into a weak formation. This technique is often combined with bulk blocking materials.

3. **REDUCING** with special slurries which thicken by pumping the waterless slurry to the loss zone, then allowing the slurry to hydrate.

4. **PLUGGING** with quick-setting cements and resins which set up while flowing into and through channels.

275 SERVICE CENTERS . . .

START WITH THESE HALLIBURTON PRODUCTS

FLOCELE . . . a cellulose film flake to help prevent or lessen circulation loss. Additive sizes are available for cement or drilling fluid.

PALCO SEAL . . . an economical redwood bark fiber proven very effective in control of lost circulation of drilling fluids.

TUF-PLUG . . . a special blend of graded, ground walnut shells providing high supporting strength and excellent bridging characteristics for wide fractures.

GILSONITE . . . a naturally occurring solid hydrocarbon with excellent bridging ability reduces cement slurry weight to as little as 10 pounds per gallon.

EXPANDED PERLITES . . . a lightweight mineral which acts both to block the loss zone as well as lighten the fluid column during cementing.

HOWCOGEL . . . a high yield bentonite which combines with water to form a high strength gel. Can be used with mud or cement.

BDO (Bentonite-Diesel Oil) . . . commonly referred to as "gunk squeeze", acts to stop drilling mud lost circulation by forming a stiff gel. BDO is pumped down drill pipe and stiffens when contacted by drilling fluid which is pumped simultaneously down the annulus.

DOC (Diesel Oil Cement) . . . has been very successful in combating lost circulation problems in many areas. When DOC is displaced in a loss zone, it thickens quickly and resists further flow. After setting, the water penetrated slurry gives a strong, permanent type plug.

HYDRO-LOK (PC-11) . . . a plastic slurry consisting of a resin mix and inert solid materials. It may be pumped or placed with a dump bailer.

CAL-SEAL . . . is a super-strength gypsum cement which sets hard quickly—and while still in motion. It can block most channels while flowing through them.

CAL-SEAL with **Portland Cement** . . . sets faster than either neat cement or Cal-Seal alone, providing an excellent material for lost circulation control at shallow depths and normal temperatures.

There are many other types of lost circulation problems . . . and Halliburton has many other additives to help you solve them. Put the combination of men, materials, and equipment of the world's most experienced oilfield service company to work for *you.* Contact your Halliburton man.

. . JUST MINUTES AWAY FROM YOUR WELL

HALLIBURTON COMPANY
DUNCAN, OKLAHOMA

Personalities IN THE NEWS

U. S. Industries, Inc., Names Billera Executive Vice Prexy-Operations

I. John Billera has been elected executive vice president-operations of U. S. Industries, Inc., in a new alignment of executive responsibilities announced by **John I. Snyder, Jr.,** board chairman and president.

Billera was previously senior vice president of the Company. In the new structure, he will be directly responsible to the chairman of the board and president for the operations of USI's thirteen divisions and subsidiaries. In turn, the vice presidents in charge of operating groups of the Company's divisions and subsidiaries will report to Mr. Billera. These include: **R. D. O'Brien,** for the oil field equipment group; **C. J. Plisky,** for the metalworking equipment and metal fabricating group; **E. F. Shelley,** for the automation, electronics and research group; and **R. S. Wright,** for the international group.

Former Los Angeles Resident Named General Manager of Texaco's Domestic Producing Department

Homer O. Woodruff has been appointed general manager of the domestic producing department of Texaco Inc., in the New York offices, it was announced recently by **A. W. Baucum,** vice president in charge of the department.

A native of Visalia, California, Woodruff joined Texaco in 1933. He began as a roustabout at Santa Paula, later serving in various producing department positions in California. In 1948 he became assistant to the division manager at Los Angeles and then served as assistant manager of the domestic producing department's Pacific Coast division from 1949 to 1956.

He was assistant general manager of the department in Houston from 1956 to 1958, and division manager at Tulsa from 1958 until September, 1959. He was then transferred to New York as assistant to the vice president in charge of the department, and held that position until his present appointment.

A. C. Wilander

S. O. of Calif. Promotes Wilander

Standard Oil Company of California, Western Operations, Inc., has announced appointment of **A. C. Wilander** as manager of its purchase and stores department. He succeeds **W. H. Klarquist** who was recently named general manager of purchasing for the parent Standard Oil Company of California.

A resident of Berkeley and a native Californian, Wilander joined Standard as a service station salesman following his graduation from University of California in 1931. He entered purchasing work in 1935, serving in Seattle and San Francisco prior to joining the U.S. Navy in 1943. In 1950 he became purchasing agent for California Research and Development Company, transferring to the corporation purchasing staff in 1953.

Other appointments to the Western Operations purchasing staff included **N. D. Tichenor** as assistant manager (purchasing) and **W. W. Sharon** as asst. mgr. (operations).

Signal Names Two Vice Presidents; Reduces Board from 26 to 14

Signal Oil and Gas Company has named **James K. Wootan** vice president in charge of exploration and **E. Paul Ludman** vice president it was announced by **Samuel B. Mosher,** chairman of the board.

Wootan, who had been director of exploration since 1956, joined Signal in 1946. He was manager of Sunset Oil Company's land department from 1936-44, when he went on active duty as a lieutenant in the U. S. Navy. He was an assistant office engineer with Tidewater Associated Oil Company from 1933-36.

Ludman became treasurer of Signal in 1958, when it merged with Hancock Oil Company, with which he had served in the same capacity since 1957. Joining Hancock as comptroller in 1950, he had been treasurer of Capitol Records, Inc. since 1946. He was treasurer of Rocky Mountain Drilling Company in 1945-46, after serving as head of the Army Air Force's West Coast audit section for two years. From 1933-42, Ludman was a C.P.A. with Price Waterhouse & Co.

Mosher also stated:

"In our continuing efforts to consolidate the policies and personnel of the four companies merged in less than two years, the board of directors has been reduced from 26 to 14 members."

Kilsby-Tubesupply Appoints Manager for Northern California

Kilsby-Tubesupply, Western distributor of standard and exotic tubular materials, has announced appointment of **Julian Fotre, Jr.,** as manager of Northern California operations.

Fotre is being transferred from Los Angeles to San Francisco, where Kilsby-Tubesupply maintains its Northern California Division. Prior to coming to Kilsby he was sales manager of Universal Sheet & Strip Steel Co. of Chicago.

S. O. of Calif. Advances Klarquist; Eimer Retires After 38 Years

Appointment of **W. H. Klarquist** to the post of general manager of purchasing has been announced by Standard Oil Company of California. Klarquist succeeds **A. R. Eimer** who is retiring after 38 years of service with the company.

Klarquist steps up to his new job from Standard's Western Operations, Inc., where he has been manager of purchasing since December of 1955.

A native Californian who studied at UCLA, he joined Standard's personnel department in Los Angeles in 1936. The following year he moved to the company's producing operations at Kettleman Hills in the San Joaquin Valley as an accountant and two years later went to Saudi Arabia in the same capacity.

Klarquist transferred to The California Company, another Standard subsidiary, in 1941 and entered the U. S. Army during World War II. He returned to Calco in 1946 and served there until his appointment to Western Operations, Inc., nine years later.

Eimer, also a native Californian, graduated from the University of California in 1917 and joined Standard's engineering department five years later. He moved from there to the company's organization staff and entered purchasing work in 1946. He was named general manager in 1957.

Under Eimer's direction, Standard's Purchase and Stores operation was revised and up-dated to handle the company's increasing needs for materials and services of all types following World War II. Because of this work Eimer achieved widespread recognition among his business associates as a leader in the increasingly complex field of purchasing.

John C. Martin Joins Standard Oil of California

John C. Martin has been appointed to the position of senior research engineer, reservoir engineering, at the La Habra Laboratory.

Martin holds degrees in mechanical and electrical engineering from Clemson College and North Carolina State College. He comes to the company from Creole Petroleum Company, Maracaibo.

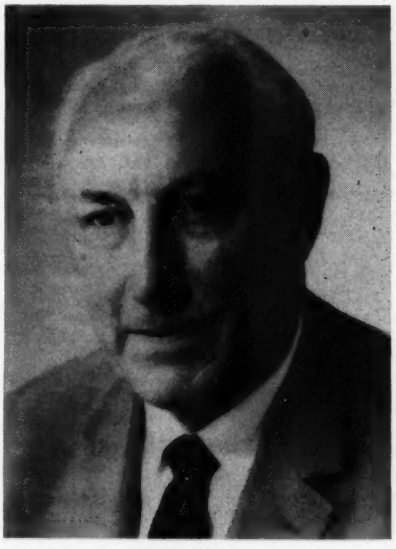
W. H. Klarquist

E. F. Nelson Rejoins UOP

Edwin F. Nelson, 34-year veteran of the petroleum industry, recently rejoined Universal Oil Products Company as a consultant for process sales and engineering, **M. D. Gilchrist,** senior vice president, announced.

A vice president of Universal from 1945 to 1952, Nelson brings with him a broad background of technical knowledge and familiarity with the petroleum refining industry gained from his prior association with UOP and his eight years as president of Lake Superior Refining Company.

Nelson first became associated with UOP in 1926. He is a member of the American Institute of Chemical Engineers and American Chemical Society. He also has been active in the Refining Committee of the American Petroleum Institute.



E. F. Nelson

California Research Corp. Increases Lab Personnel

From the San Francisco office of California Research Corporation comes an announcement of additions to the staffs of their La Habra and Richmond Laboratories.

Stephen D. Semegran, research engineer, has joined the producing research staff at La Habra.

The Richmond Laboratory has added **Finn Haaskjold,** research engineer; **Lawrence E. Santucci, Jr.,** research engineer in fuel oils, asphalts and special products; **Carl D. Karaba,** research engineer in greases and industrial lubricants and **Victor A. Rundle,** research chemist in fuel oils, asphalts and special products.

If Government Controls Energy

Suppose a government agency was empowered to tell you what kind of materials you could use in building a home—or what kind of meats and vegetables your wife must put on your dinner table.

It couldn't happen, you'll say—not at least, short of an all-out war in which iron-clad controls were needed as a matter of unavoidable military necessity.

But, in effect, it may happen in one important area if proposals for the establishment of a "National Fuels Policy" become the law of the land.

The government would be given control of all fuel consumption. Statutes would specify who could burn oil, and for what purpose; who could consume natural gas, and who would be required to stoke his furnace with coal, whether he wanted it or not.

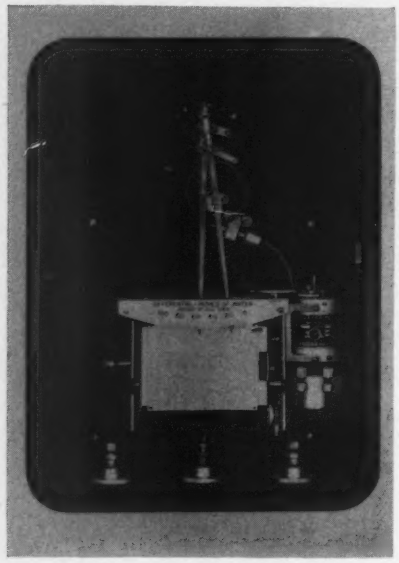
In other words, power of choice in the selection of fuels would be taken away from the consumer and replaced with power of decision by a government agency.

The implications of this are as broad as they are ominous. In the modern world, use of energy underlies almost every human activity. Control of energy could lead to a degree of government control of industry on a scale which is totally unprecedented in this country. And the cost in American freedom could be limitless.

New Strip Chart Recorder Provides Unattended Record Up to 36 Days

A new Strip Chart Recorder that provides a record of flow, pressure and temperature measurements for periods up to 36 days without attention has just been introduced by American Meter Company.

In announcing the new recorder, C. B. Dushane, Jr., Vice President—



American Strip Chart Recorder

Sales, pointed out several advantages of this new product. The instrument is the cartridge type and makes possible reduced chart changing costs. Each cartridge, including chart, storage spool and rewind spool is removed as a unit, so that chart changes can be made in a few seconds. No re-threading at the site is required. The cartridge will fit into the American Chart Integrator for fast chart interpretation.

With its chart capacity of 38 feet, the American Strip Chart Recorder will provide an extremely legible record for a period up to 36 days on a single chart. Chart speeds are available from one-half to six inches per hour, powered by either an electric drive or an American Gasclok Power Drive. This is of special advantage for installations in inaccessible locations, Mr. Dushane said.

The American Strip Chart Recorder can be used with instruments equipped with three pens for flow, pressure and temperature, for use in orifice meters, pressure or temperature recorders, integrating orifice meters, or with Telecounter transmitters or Telemeter receivers.

Complete information on the new strip chart recorder can be obtained from American Meter Company, Advertising Department, 920 Payne Avenue, Erie, Pa.

Full-Bore Deflection Tool Developed by Rueter Corp.

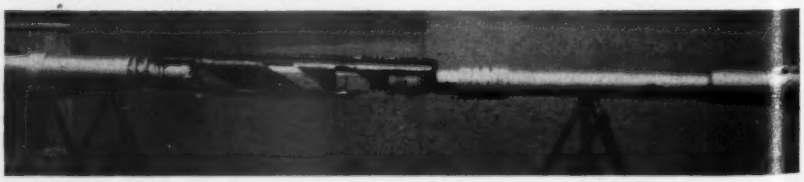
For thirty-five years the oil industry has been seeking an improved method of controlled directional drilling. Inasmuch as many California and Gulf coast wells are deflection drilled, this is a major factor in the oil industry.

The present method of altering drilling direction is the use of a series of whipstocks. This requires two or more trips in and out with the tool and tends to create a series of doglegs in the hole which is a hazard to further drilling operations.

Over a period of nine years, Rueter Corporation has been developing a full-bore deflection tool that has proved to be the long-sought goal of the industry in this field. The Rueter method permits the smooth transition from a straight hole to an arc which can be varied from one degree per hundred feet to as great a deflection as may be desired. This is accomplished in one pass and can be controlled in azimuth and deflection from the surface without removing the drill string. The Rueter tool is of simple construction, is about eighteen feet long and weighs approximately one ton.

The Rueter Corporation plans to provide this service to the oil industry on a rental basis, each tool being accompanied by a competent drilling engineer.

Basically the tool operates in the following manner: After proper orientation near the bottom of the straight hole, the weight of the drill string is permitted to rest on the tool. This load forces the upper portion of the tool against the springs at either end of the pad and in turn the inclined planes force the movable pad outward against the hole wall, simultaneously shearing the breaker pin and disengaging the pad clutch from the mandrel. This permits the mandrel to turn freely within the pad, though the mandrel is offset some one to two inches from the hole center. It is this eccentricity coupled with the flexible joint which provides the tilt of the tool and, by adjusting the distance from the flexible joint to the bit, any desired amount of deflection may be obtained. As the drilling progresses, the pad is dragged down at the same rate, the fins on either side keeping the direction constant. If at any time it is desired to check this direction, simply by lifting the tool to retract the pad and rotating counterclockwise will re-engage the clutch between the pad and the mandrel. This procedure is possible because the arms of the re-orientation assembly bite into the wall of the hole so that the mandrel may be turned relative to the pad until the clutch engages. The re-orientation assembly arms were folded against

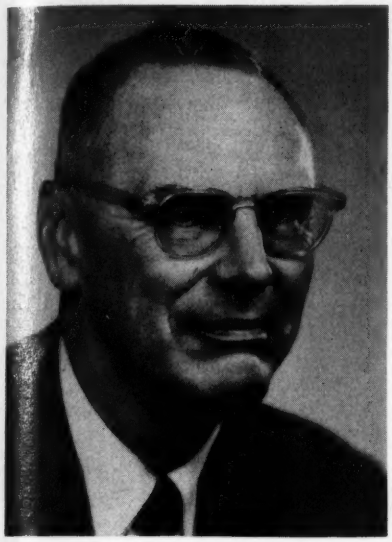


New full-bore deflection tool by Rueter is about 18 feet long and weighs about one ton.

their respective springs until the weight of the drill string spread the pad and released them prior to the start of the drilling operation.

Future improvements to the present design include a hydraulic actuated pad and an electronic device which gives a constant reading of depth, temperature, deflection and azimuth while drilling.

Rueter Corporation formerly was Rueter Oil Tool Company.



R. L. Hock

Citizens National Bank Moves Gas & Oil Division; R. L. Hock in Charge

The Oil and Gas Division of Citizens National Bank moved into its new headquarters offices in the bank's Wilshire-Flower office on August 22, in downtown Los Angeles, it was announced by Roy A. Britt, Citizens president.

The new Wilshire-Flower office is located in the recently completed 21-story Tishman Building at the northwest corner of Wilshire Boulevard and Flower Street.

R. L. Hock, vice president and a senior loan officer of Citizens, is in charge of the Oil and Gas Division, formerly quartered at the bank's head office at Spring Street at Fifth, Los Angeles.

In addition to the division's primary activity in production loans and payment financing, all regular banking services are available at the new office.

These banking services, custom designed for major integrated petroleum companies, independent producers or individual investors, include town-lot rental payments, escrows, corporate trust, stock transfer and registry.

Now in its 70th year, Citizens National Bank has 58 branch offices in the Southern California area with total resources in excess of $500 million.

Reserve Oil and Gas Co. Reports to Stockholders

As Operator for itself and associates, Reserve has now completed 21 producing Vedder zone wells in the North Tejon Field. These wells generally take about four months to drill and are relatively expensive. Eight have already paid out, however, in an average time of 13 months. Reserve's working interest in the wells is about 35%. Limits of the field to the east and southeast are still not known and the Company and adjacent operators are currently drilling new locations.

Reserve has two development wells under way, one in the Highway Area to the west and one in Section 21 two miles to the east. Reserve owns 55% working interest in the latter well and 100% working interest in the remainder of Section 21 and in all of Section 22. Standard Oil Company of California has completed one Vedder zone producer in Section 16 offsetting Section 21 to the north and is now drilling a second offset well on that section. Reserve participates with Standard in this lease in a small way, having a 6% interest in the first well and 11.4% in all subsequent wells.

The Vedder zone wells in the North Tejon Field in which Reserve has an interest are currently producing an average of 247 barrels of oil per day, 37 barrels of water and 587 MCF of gas. Two of these wells are dually completed in the Eocene Sand along with the Vedder. Most of the water produced comes from four adjacent wells located on the north flank of the field. These four wells and two others have been placed recently on gas lift operation. The remaining wells flow by natural reservoir pressure. Evidence of a natural water drive has been limited thus far to a small portion of the field. Like most California fields, it is believed that the natural mechanism for the production of oil will be gas expansion and not water drive.

A new formation notch-fracturing technique has been employed in the completion of two of the newer wells resulting in present production rates of 370 to 420 barrels of oil daily from each well which otherwise appeared to be capable of producing individually about 75 barrels daily. This technique may open new vistas in recoveries from some Vedder zone wells in relatively tight sands, and may be particularly applicable to the recompletion of certain older wells.

The Company's share of net oil production from the deep Vedder wells at North Tejon was about 12% higher during the first six months of 1960 than for the comparable period last year. Average net daily production from all sources during the first six months of 1960 was 2768 barrels of oil and 4621 MCF of gas. These rates compare with 2991 barrels of oil and 3950 MCF of gas for the first half of 1959. Production rates during June 1960 averaged 2802 barrels of oil, 4665 MCF of gas and 1169 gallons of gasoline daily.

The Company owes no money other than current bills. Working capital at June 30, 1960 was $1,517,413 compared with $1,109,873 on June 30, 1959, and the present net cash flow of about $200,000 per month is expected to be sufficient to carry out the contemplated drilling programs during the balance of this year.

Reserve in recent months has been actively engaged in the search for dry gas production in the Sacramento Valley of California. Several nonproductive tests have already been drilled and further tests based on the initial wells may be pursued in the near future.

Oil Companies Also in Uranium

The Grand Junction operations office of the Atomic Energy Commission recently signed a contract with Petrotomics Company for the purchase of uranium concentrates derived from ore developed in the Shirley Basin area in Carbon County, Wyoming. Petrotomics Company, with principal offices in Oklahoma City, is a general partnership comprising Kerr-McGee Oil Industries, Inc., Tidewater Oil Company, Skelly Oil Company, and Getty Oil Company.

The contract, extending through December 31, 1966, provides for the purchase of appropriate quantities of U_3O_8 derived from controlled eligible ore reserves pursuant to the Commission's announcement of November 24, 1958, together with provisions for ore production in the pre-1962 period which the Commission can direct to existing mills.

Field Development

Pacific Coast and "4" Corners

LOS ANGELES BASIN

Newhall Wildcat Test

Rennick-Corwin Associates is grading roads and rig site for Hammon No. 5 located northwest of the Towsley Canyon field in the southwest quarter of Section 8-3n-16w.

Socony Wildcat Abandoned

Socony Mobil Oil Company, Inc., has abandoned its deep test located on the Brentwood Country Club, Brentwood No. 1, at a total depth of 11,136 feet. No tests were run on the hole, located in the northwest quarter of Section 32-1s-15w.

Southern Pacific Test Abandoned

Standard Oil Company plugged and abandoned Southern Pacific No. 57-1 after drilling to a total depth of 9524 feet. The test was located in the southwest quarter of Section 34-1s-13w south and east of the intersection of Alameda and 7th Streets.

Olinda Field Completion

Chanslor-Western Oil & Development Co. completed well No. 103 flowing 250 b/d of 32.3 gravity oil with a cut of 3 per cent. Flow was through a 20/64" bean with pressures of 115/280 psi. Located in the northwest quarter of Section 8-3s-9w, the well was drilled to a total depth of 4212 feet and has 7" casing cemented at 3780 feet.

Cheviot Hills Test Redrills

Signal Oil and Gas Company resumed operations on Signal-Richfield-Rancho No. 7 and after plugging back to 1025 feet is redrilling below 2000 feet. Located near the intersection of Pico Boulevard and Kerwood Avenue in Section 36-1s-15w, the well was first completed from a total depth of 10,257 feet. The operators' Signal-Richfield-Rancho No. 9 drilled to a total depth of 10,693 feet and is standing suspended after plugging back to 861 feet.

Beverly Hills Completion

Universal Consolidated Oil Company completed Community No. 301-D flowing 360 b/d of 33. gravity oil with a cut of 0.8 per cent through a 12/64" bean. Located north and west of the intersection of Pico Blvd. and Fox Hills Drive in Section 25-1s-15w, the completion was drilled to a total depth of 10,348 feet and cemented 7" casing at an undisclosed point. The derrick was skidded ten feet southeasterly to a new location for Community No. 302-D, now drilling below 4500 feet. The Sun Drilling Co. is the drilling contractor.

Saugus Wildcat Abandoned

Sunray Mid-Continent Oil Company drilled to a total depth of 10,505 feet on S.M.C.-Ohio-N. L. & F. No. 37 and abandoned the well without testing. The abandonment was located in the southwest quarter of Section 27-4n-16w midway between the towns of Saugus and Newhall.

Brea-Olinda Completion

Union Oil Company of Calif. completed Naranjal No. 52-3 pumping 210 b/d of 23.3 gravity oil cutting 0.4 per cent and 197 mcf of gas. Located in the northeast quarter of Section 3-3s-10w, the well was drilled to a total depth of 3900 feet, plugged back to 3550 feet and cemented 7" casing at 3204 feet.

Inglewood Field Recompletion

Standard Oil Company of Calif. recompleted Bradna Community No. 3 flowing 310 b/d of 27.2 gravity oil cutting 2.2 per cent through a 24/64" bean with 160 psi flow pressure. Flow is from the perforated interval 9190-8937 feet. The well was first completed in 1957 as a new pool discovery from a plugged depth of 8800 feet, and a total depth of 10,313 feet. The well was taken off production and redrilled to its present effective depth of 9200 feet. Location of the completion is in Section 16-2s-14w.

North Santa Fe Springs Test

Continental Oil Company has awarded a contract to the Sevens Drilling Co. to drill Felix No. 1 a wildcat test in the northwest quarter of Section 31-2s-11w. Location of the test falls approximately ½ mile north of the Santa Fe Springs field and is scheduled to go to 10,000 feet.

Three Bouquet Canyon Tests

Edward Lustgarten, Operator, has staked locations for three tests in the area. Lucky Lusty Nos. 4 and 5 will be drilled in the northeast quarter of Section 14 and Lucky Lusty No. 6 in the southeast quarter of Section 14-4n-16w.

Coyote Pass Test Abandoned

In the Monterey Park area, Texaco Inc. plugged and abandoned Heller No. 1 after drilling to a total depth of 8363 feet. Logs were run but no tests were made on the well, located near the intersection of Vagabond and Monterey Pass Roads in Section 28-1s-12w.

NORTHERN CALIFORNIA

Solano County Gas Test

Amerada Petroleum Corp. is grading location for Zimmerman Gas Unit No. 1 in the northwest quarter of Section 29-6n-2e in the Bunker area. The location is two miles west of the Maine Prairie Gas field and one mile southeast of the recently discovered Bunker Field.

Wildcat Test for Gulf

Western Gulf Oil Company has staked location for a wildcat gas test, Goff-Erdman No. 1, in the southeast quarter of Section 15-13n-1e. The well will be a 10,000 foot test and is four miles east of the Buckeye Gas field in Colusa County. The Buckeye Field was discovered by the Western Gulf Oil Co. and has three producing wells.

New Pool Wildcat

In the Roberts Island area in San

Baker's New Snap-Set Duals

—the packers that are bringing single-zone control and simplicity to dual completions

A Baker dual-string completion approaches the control and simplicity (and the flexibility) of a single-zone completion. What makes this possible? Mainly the development of better upper retrievable packers—Baker's new Snap-Set Dual Packers. Operators all across the country are commenting on their impressive performance.

What makes a good dual-string packer? Several things, starting with the ability to (a) set and unset readily and repeatedly; (b) pack off and retrieve easily; (c) hold a dependable packoff even when pressures and temperatures are high.

Do Baker's new dual packers do these things? They do. This is easy to understand when you consider Baker's vast experience with high performance retrievable squeeze packers. The Baker Full-Bore Cementer, for instance, has seen action in thousands of successful high pressure cementing, frac, and testing operations. This squeeze packer experience has made important contributions to the design of these new dual production packers.

That's only a brief look at the story of these remarkable packers. A few more of the interesting facts are spelled out by the pictures and text below. For a complete fill-in on Baker snap-set duals and the hookups they're used in, consult Baker's field staffs and send for literature.

FACTS ON PLANNING DUAL-STRING COMPLETIONS

Baker field staffs have all the latest facts and figures on Baker's intensive continuing study of dual-string completions. They will welcome your inquiries. We will also be glad to send you the latest literature. Please write Baker Oil Tools, Inc., P. O. Box 2274, Terminal Annex, Los Angeles 54, California.

TWO BASIC MODELS. Model J (Product 756-J) is long-string set. Model K (Product 756-K) is short-string set. Both come with or without hold-down buttons (double or single grip). The pictures show single-grip Model J.

WHAT MAKES A GOOD DUAL PACKER?

The text above tells some of the things that are important. Here are a few more of the facts, starting with big unrestricted bores. Big bores are important because they permit you to run instruments and workover tools. These are probably the largest bores it's possible to design into a dual packer. For instance, a Baker dual packer for 7" casing is full-opening for two strings of 2⅜" tubing.

POSITIVE PACKOFF AND RELEASE

This three-element packing element design achieves a positive and lasting packoff with minimum set-down weight. It also simplifies release when you want to reposition or retrieve. What makes this possible is that the design prevents packing element extrusion without using the conventional metallic back-up rings that sometimes stick to the casing and defeat retrievability.

WHY SNAP-SETTING IS IMPORTANT

This simple snap-latch is what makes a Baker dual packer so easy to set and unset repeatedly. There are no one-shot shear pins. There's no ball dropping, no pressuring, no rotation. Just set down minimum weight to set packer, and pick up to release. This simplifies spacing out and enables you to test packers before displacement.

YOU CAN DISPLACE WHILE FLANGED UP

Using a side door completion valve, or sleeve valve, or other method, you can displace mud and wash in both zones with well head flanged up and under complete control.

BAKER

SNAP-SET DUAL PACKERS

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Joaquin County, Arcady Oil Company is drilling below 2000 feet on Jones No. 1-19. The test is located 1½ miles east of production in the northwest quarter of Section 19-1n-6e.

San Joaquin County

Completion

Standard Oil Company completed McCormack-Williamson No. 7 flowing 6460 mcf of gas per day through a 5/16" bean with pressures of 2605/2886 psi. Flow is from the Winters Sand perforations 7755-7710 feet. Located in the northeast quarter of Section 36-5n-4e, the completion was drilled to a total depth of 8205 feet and cemented 5½" casing at 8108 feet. This well is the second completion from the Winters Sand in the deeper pool area.

Buttes Drills Elkhorn Test

Buttes Oil and Gas Company has graded rig site for a Sutter County wildcat gas test 12 miles north of Sacramento. Location for the test, Natomas No. 1, is in the northeast quarter of Section 4-10n-4e on Lot No. 108.

Yolo County Gas Test

Rinde Oil Company is grading rig site for a wildcat gas test, Helen Chick No. 2, located in the southeast quarter of Section 23-9n-1w. The well will be drilled to approximately 5000 feet to test the McCune Sand of the Cretaceous and is three miles north of the Winters Gas field. Brown Drilling Co. has the drilling contract.

Ripon Area Wildcat

Occidental Petroleum Corp. is drilling below 2500 feet on P. L. Davies et ux No. 1 located in the northwest quarter of Section 16-3s-7e in Stanislaus County. The test is four miles east of the Vernalis Gas Field.

Contra Costa County Abandonment

Trico Oil and Gas Company's Nevis No. 1 drilled to a total depth of 3992 feet and was plugged and abandoned without testing. The well was located in the southwest quarter of Section 16-2n-1w, ¼ mile southeast of the company's Willow Pass new pool discovery.

Yolo County Test Abandoned

Three miles northwest of Dunnigan Hills gas production, Humble Oil and Refining Company drilled to a total depth of 9000 feet on Lillie M. Bemmerly No. 1 and plugged and abandoned the test. Location of the abandonment is in the center of the southeast quarter of Section 8-11n-1w.

Colusa County Wildcat

Occidental Petroleum Corp. is preparing to drill H. L. Dobbins No. 1, a Colusa County gas test. Location of the wildcat test is in the southwest quarter of Section 8-13n-3w approximately 8 miles west of Arbuckle gas production in the San Creek area.

Sacramento County Gas Discovery

Amerada Petroleum Corp. completed and shut-in Garin Gas Unit No. 1 as a new field discovery. Located in the Grand Island area in the northwest quarter of Section 29-5n-4e, three miles northwest of Walnut Grove gas production, the well was drilled to a total depth of 6475 feet and cemented 5½" casing at 4730 feet. Cement was drilled out to 4700 feet and the casing gun perforated from 4677-4672 feet.

Humboldt County Test

Zephyr Oil Company is starting Leon Oro Blanco No. T-3 in the Humboldt Bay area. Location of the well falls 200 feet north and 250 feet west from the east-quarter corner of Section 1-3n-2w, H.B.&M. Ben Owens has the drilling contract.

COASTAL AREA

West Montalvo Completion

Standard Oil Company of Calif. completed Patterson Ranch One No. 1019 flowing 807 b/d of 17.3 gravity oil cutting 3.2 per cent. Flow was from the perforated intervals 11,143-10,767 feet and 10,735-10,446 feet. Located in the northeast quarter of Section 1-1n-23w, the well was drilled to a total depth of 11,240 feet, plugged back to 11,150 feet and cemented 7" casing at 10,443 feet.

Ventura County Test Abandoned

Shell Oil Company plugged and abandoned its deep test of the Montalvo-Saticoy area, Sharp No. 1, at a total depth of 16,915 feet. Logs were run but no tests were made on the well, located in the southwest quarter of Section 10-2n-22w two miles north of El Rio production.

Two Ventura Avenue Wells

Locations for two new wells were staked in the Ventura Avenue field. Lloyd Corporation, Ltd. will drill Lloyd Corp. No. 93 in Section 19-3n-22w and Shell Oil Company will drill Taylor No. 572 located in Section 20-3n-23w.

Bardsdale Recompletion

Union Oil Company of Calif. recompleted Geis-Robertson No. 1 good for 203 b/d of 34.5 gravity oil with a cut of 4 per cent from a total depth of 7542 feet. 6⅝" casing is cemented at 5886 feet. Located in the northeast quarter of Section 12-3n-20w, the well was originally completed by W. H. Geis from a depth of 5887 feet.

Ventura County Test Suspended

Standard Oil Company of Calif. has suspended operations on W. C. Donlon No. 3 after drilling to a total depth of 11,063 feet and running logs. The test is located in Section 22-2n-22w in the El Rio area.

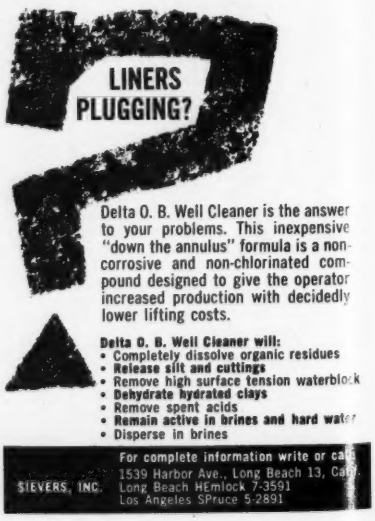
SAN JOAQUIN VALLEY

Fresno County Outpost Test

In the Guijarral Hills area, Leda Petroleum Company is grading roads and rig site for Guijarral Service Co. No. 34B-22F in the northwest quarter of Section 22-20s-16e. The well is a southeasterly offset to the company's recently completed new pool discovery, No. 24X-22F flowing 25 b/d of 35.0 gravity oil cutting 2 per cent.

Helm Test Abandoned

R. B. Montgomery, Operator, plugged and abandoned Goyne-Rheem-Hawn No. 26X-24 after drilling to a total depth of 7150 feet. No tests were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run on the well located in the southwest quarter of Section 24-17s-18e in Fresno County.

Mountain View Recompletion

Standard Oil Company recompleted Nichols Community No. 2 flowing 263 b/d of 33.6 gravity oil cutting 0.1 per cent through a 14/64" bean with a flow pressure of 260 psi. Located in the southwest quarter of Section 19-30s-29e, the well was deepened from 5650 feet to its present depth of 5873 feet. 5½" casing is cemented at 5803 feet and a 4" perforated liner hung at 5800 feet.

Pyramid Hills Test Abandoned

Drilling and Production Company's Orchard No. 22-32 was deepened from a suspended depth of 3525 feet to a total depth of 5206 feet and after running logs was plugged and abandoned. Before deepening, mud and salt water were recovered on a test from three intervals above 3452 feet. The well was located in the northwest quarter of Section 32-24s-18e in Kings County.

Twenty Two Shell Locations

Shell Oil Company has staked locations for 22 development wells in the East Coalinga Field. Six will be drilled in Section 2-20s-15e, two in Section 15-19s-15e and one each in Sections 26 and 27 in 19s-15e. Three wells will be drilled in the southeast quarter of Section 30-19s-15e. Six wells are located in the northwest quarter of Section 34 and three in the southwest quarter of Section 34 in 19s-15e.

Two McDonald Anticline Tests

Laymac Corporation has staked locations for two new development wells in the field. Layman Unit No. 38 will be drilled in the southeast quarter of Section 18 and Layman Unit No. 39 in the northeast quarter of Section 18-28s-20e. Both wells will be Point of Rock tests.

Kern County Wildcat Test

Western Petroleum Company is preparing to drill Western Petroleum-MJM&M-Hagood No. 1 located in the northwest quarter of Section 18-29s-30e. Rig site is 2½ miles east of Ant Hill production and is on a 1360-acre farmout from the M.J.M.&M. Oil Company. The well will be a 3100 foot test of the Olcese, Jewett, Pyramid Hills and Vedder zones.

San Emidio Nose

Richfield Oil Corp. will drill KCL-H No. 21-16, a south edge well located in the northwest quarter of Section 16-11n-21w.

Helm Field

R. B. Montgomery, Operator, is preparing to drill Goyne-Rheem-Witten No. 53X-23 located in the north quarter corner of Section 23-17s-18e. Company tools will be used.

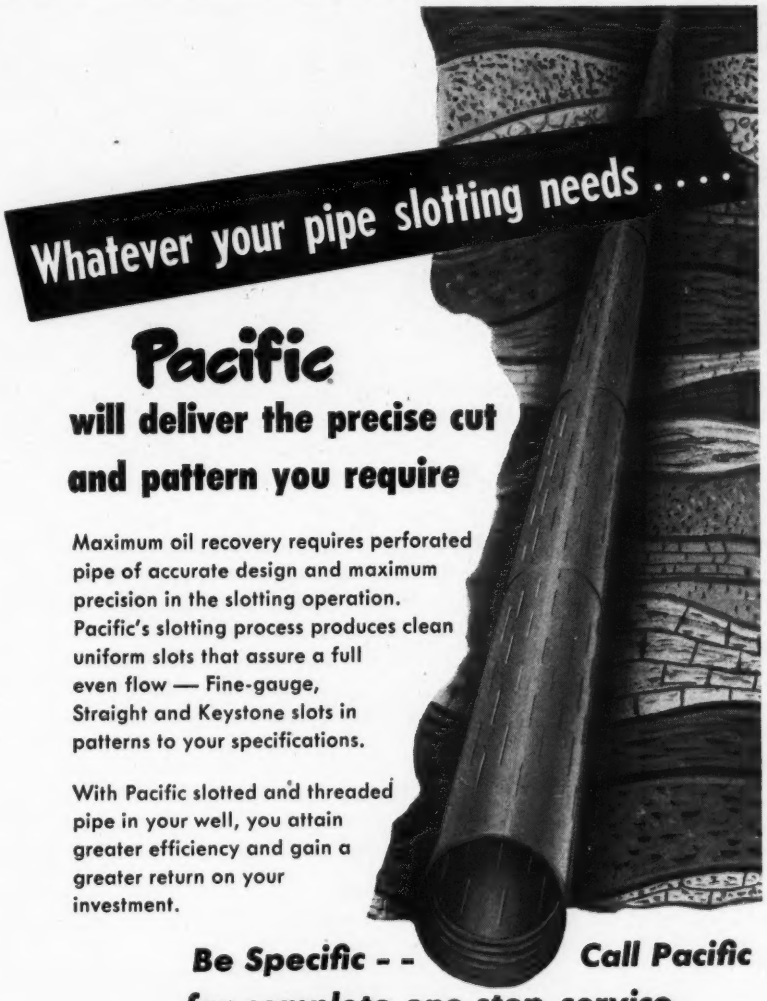
Fruitvale Completion

Union Oil Company completed KCL No. 42-20, the most southerly well located on Section 20-29s-27e, flowing 101 b/d oil cutting 3 per cent through a 8/64" bean and 18 mcf per day of gas. Total depth of the well is 4500 feet plugged to 4210 feet and a 5½" combination string is hung at 4209 feet and cp'd at 4152 feet.

OTHER AREAS

Alaska

Union Oil Company of Calif. and The Ohio Oil Company have staked location for three wells on their Union-Ohio-Kenai Unit lease. Union-Ohio-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Kenai Unit No. 23-4 will be drilled in Section 4-4n-11w two miles east of their discovery well, Unit No. 34-12 in Section 12-4n-12w one mile east of the discovery, and Unit No. 41-19 will be drilled in Section 19-4n-11w two miles southeast of the discovery well.

Standard Oil Company of Calif. and Richfield Oil Corp. drilled to a total depth of 3000 feet on S.R.U. No. 41-33 and after cementing 5½" casing at 3000 feet is preparing to test. Location of the well is in Section 33-8n-9w in the Swanson River area.

In the Soldotna Creek area, Standard Oil Co. and Richfield Oil Corp. drilled to a total depth of 11,520 feet on Soldotna Creek Unit No. 14-4 and are completing the well, located in Section 4-7n-9w. Rotary equipment is being moved to a new location to drill Soldotna Creek Unit No. 12-9 in the northwest quarter of Section 9-7n-9w.

In the Cape Yakataga area in southeastern Alaska, Richfield Oil Corp. is drilling below 8500 feet on Kaliakh River Unit No. 2 located in the northwest quarter of Section 28-20s-14e.

Colorado

Shell Oil Company has staked a location for Wray Mesa Unit No. 1 in the southeast quarter of Section 21-47n-19w in Montrose County. The test is 14 miles north of Southeast Lisbon and will be a 10,200 foot Mississippian test on a farmout from Cities Service Oil Company.

W. C. McBride Inc. continues to test Writebol No. 3 after the well flowed 11 barrels per hour from the J Sand perforations 4977-4973 feet. Top of the J Sand was logged at 4953 feet. The well is an outpost of the Shield Field located in the northeast quarter of Section 31-8n-53w in Logan County.

Montana

Mule Creek Oil Company has graded a rig site for Government No. 31-11 located in the northeast quarter of Section 11-2n-40e in Valley County. The wildcat will be a 6600 foot Devonian test and is the first of two wells to be drilled in the area.

Northern Natural Gas Producing Company will drill Copulos-D No. 1 in the southeast quarter of Section 10-2n-21w in Stillwater County. Scheduled to go to about 2800 feet, to test the Frontier, the well is one mile north of the North Lake Basin field production.

Nebraska

The Superior Oil Company completed Kaldal No. 23-7 pumping 125 b/d of oil and 35 b/d water from a casing Notch in the J Sand at 6367 feet. Top of the sand was logged at 6362 feet. Located in the southwest quarter of Section 7-15n-55w in Kimball County, the well is a westerly offset to the West Skelly discovery well and is the second well to be completed. Total depth of the well is 6440 feet with 5½" casing cemented on bottom.

Chaplin Oil and Refining Company completed Peterson-A No. 5 pumping 270 b/d oil from the J Sand perforations 7025-7028 feet in the 5½" casing cemented at 7130 feet. The well was drilled to a total depth of 7131 feet and logged the top of the J Sand at 7025 feet. Located in the southeast quarter of Section 14-16n-58w, the completion extends the Russell Field approximately ½ mile to the southeast.

New Mexico

El Paso Natural Gas Corp. has staked a location for Jicarilla-Apache No. 92-2 in the southwest quarter of Section 20-27n-3w in Rio Arriba County. Scheduled to go to the Dakota at approximately 8500 feet, the test is six miles east of the Dakota production in the East Companero Field.

H. D. Hale is preparing to drill Consolidated No. 1 in the northeast quarter of Section 24-26n-8w in San Juan County. The well will be a 7200 foot Dakota test and is five miles southwest of the Dakota production in the South Blanco Field.

Pan American Company completed Gallegas Canyon No. 85 flowing 4942 mfc of gas per day through a ¾" bean from the Dakota perforations 6134--6005 feet. Located in the northeast quarter of Section 19-28n-12w in San Juan County, the well was drilled to a total depth of 6230 feet and cemented 7" casing at 6230 feet. On a test of the Gallup Zone perforations 5452-5417 feet frac oil was recovered.

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North Dakota

The California Company drilled to a total depth of 4400 feet on Kitzman-Bank of North Dakota No. 1 and abandoned the test. Located in the northwest quarter of Section 5-153n-80w in McHenry County, the well was a easterly offset to the Pratt Field discovery.

Cardinal Petroleum Company is drilling below 1000 feet on Brolen No. 1 located in the northwest quarter of Section 22-162n-85w in Renville County. The well is nine miles south of the Sherwood Field and will test the Madison at about 4900 feet.

Oregon

Humble Oil and Refining Company's Lake County deep test, Thomas Creek Unit Three No. 1 is drilling below 5400 feet. Located in Section 18-36s-18e, the well will be a 12,000 foot test.

Utah

Miami Petroleum Company is cleaning out after successfully drill stem testing the Ismay interval 5000-5081 feet on Navajo-B No. 1. With the tool open 2½ hours, gas reached the surface at once and oil in one hour. Oil flow was 42 barrels per hour. The test is located in the southeast quarter of Section 28-41s-21e in San Juan County, 1½ miles west of the Tohonadla Field production.

Lemm and Maiatico are drilling below 2000 feet on Dry Mesa-Government No. 1 located in the southwest quarter of Section 2-35s-18e in San Juan County. The test is a rank wildcat and will test the Mississippian at about 3950 feet.

Washington

Sunshine Mining Company and Cascade Gas Company's Rayonier No. 1 drilled to a total depth of 6500 feet, abandoned the lower portion of the hole, and is production testing upper showings. A string of 4½" casing was cemented at 4734 feet and gun perforated from 3950-3750 feet. The test is located in the southwest quarter of Section 24-20n-12w in Grays Harbor County.

Wyoming

Continental Oil Company is grading roads and rig site for Love Ranch Unit No. 1 to be drilled in the southeast quarter of Section 11-35n-91w in Freemont County. Programmed as a 6500 foot Mesaverde test, the location

is about four miles southwest of the company's Squaw Butte Unit No. 28-1, a fance gas discovery in the northwest quarter of Section 28-36n-90w.

Mountain Fuel Supply has announced a location for Hollar Springs Unit No. 1 to be drilled in the northeast quarter of Section 28-18n-19w in Carbon County. The well will go to about 9000 feet to test the Mesaverde and will be the first well drilled on the proposed unit. Closest production to the test is the Sohio Petroleum Company's recent Frontier and Nugget gas discovery several months ago, Dow Creek Unit No. 1 in the southeast quarter of Section 12-16n-92w.

Cabot Carbon Company has staked a location for Cathedral Reservoir Unit No. 1, a deep test in the northwest quarter of Section 21-14n-99w in Sweetwater County. The well will be a 12 000 foot Cretaceous test and is ten miles north of the Hiawatha Dome gas field. The only drilling in the township was a test by Forest Oil Company in Section 26, abandoned at a total depth of 4175 feet.

Caulkens Oil Company has scheduled a second test on the Black Butte Creek Unit, a 41,439-acre block. The well, Black Butte Creek Unit No. 44-10 will be drilled in the southeast quarter of Section 10-18-102w in Sweetwater County and will test the Morrison at 6200 feet. Closest production to the test is Continental Oil Company's discovery well on the Unit in Section 8-19n-102w six miles to the southeast.

Jeff Hawks of Casper has announced a location for Government No. 1 to be drilled in the southeast quarter of Section 6-39n-62w in Niobrara County. Located 9 miles west of the West Mule Creek Field, the well will test the Morrison at about 5800 feet.

U. S. Smelting, Refining and Mining Company has an apparent Dakota discovery in Kummerfield No. 1-32 located in the northeast quarter of Section 32-51n-68w in Crooks County. On a test of the interval 6116-6069 feet with the tool open 1 hour gas flowed at a 4000 mcf per day rate. Top flow pressure was 1345 psi and shut-in pressure 2357 psi. Accompanying the gas was a heavy spray of condensate. Top of the Dakota was logged at 6057 feet. Further testing is underway.

Fairchild Aerial Survey Starts Survey of N.E. Alaska

An airborne magnetometer survey of a 21,000 square mile area in northeastern Alaska will be completed this summer by Fairchild Aerial Surveys, Inc., a subsidiary of Fairchild Camera and Instrument Corporation, Syosset, L.I., N.Y.

Shaded area shows location for Airborne Magnetometer survey now being conducted in Alaska.

The survey is being performed for five U.S. oil companies, and will be of a reconnaissance nature designed to give a quick overall picture of the important and significant geologic features of this relatively unexplored area.

Flying will be accomplished with one of Surveys' specially modified twin-engine Beechcraft aircraft with survey operations scheduled for completion in mid-August. Survey data will be given a quick field check by the flight crew and then air expressed to the Surveys home office in Los Angeles for compilation and delivery to the participating oil companies.

Another airborne magnetometer survey is currently being undertaken by Fairchild in Libya, North Africa.

UOP Reports Half-Year Net Income of $814,121

Universal Oil Products Company reported net earnings of $814,121 for the six months ended June 30 from income of $29,914,709. Per share earnings were 28 cents for the period.

Half year earnings are "currently in line with earlier forecasts and your management fully expects per-share earnings for 1960 to at least equal those for 1959," shareholders were advised. Earnings last year were $1.12 per share.

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"What's the trouble?" the psychiatrist inquired of his patient.

"I have a liver complaint," was the reply."

"That's a little out of my line," said the analyst, "but now that you're here, go ahead and tell me about your liver complaint."

"It's this way, Doc," the patient explained, "my wife always insists on serving it with bacon instead of frying it with onions."

Keep your nose to the grindstone, your shoulder to the wheel and your eye on the ball. Now try to work in that position.

A college boy sent a telegram home saying, "Mom! Have failed everything. Prepare Pop."

The reply came the next day, "Pop prepared—prepare yourself."

On operations in the North Atlantic, the officer of the deck of our submarine glanced at the compass repeater on the bridge and noticed that we were off course. "Helmsman, mark your helm!" he shouted down the conning tower hatch.

The reply came back, "One eight zero, Sir."

"What the devil are you doing twenty degrees off course?" asked the officer.

Up came the answer from the young seaman on helm duty: "Coming back from thirty, Sir."

Two mice were talking. One said, "I'm going up in those satellites with the monkeys."

Mouse number two: "Isn't that dangerous work?"

Mouse number one: "You want I should go back into cancer research?"

"Sometimes," said the mistress to the new maid, "it will be necessary for you to help me upstairs."

"I understand, ma'am," replied the girl, "I drink a bit myself."

Attorney: "Are you sure this is the man who stole your car?"

Plaintiff: "Well, I was. Now, after this cross-examination, I'm not sure I ever owned a car."

The little girl's mother was next door when the phone rang, so the youngster answered it. "Is your mother home?" a voice asked.

"No," answered the little girl.

"When she comes in, will you ask her to call Capital 3472, please. Do you have that down?" the voice asked.

"Well, I have the last numbers all right," said the little girl, "but I don't know how to make a capital 3."

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McCULLOUGH SALINITY LOG

with scintillometer®

...a nuclear log that tells

OIL *from* SALT WATER

The McCullough Salinity Log determines the presence and degree of saline fluids in formations surrounding the bore-hole. It will distinguish between oil and salt water and can be used in open or cased hole. Providing hole diameter is not extreme, it may be used where air or gas or highly saline fluid was used for drilling.

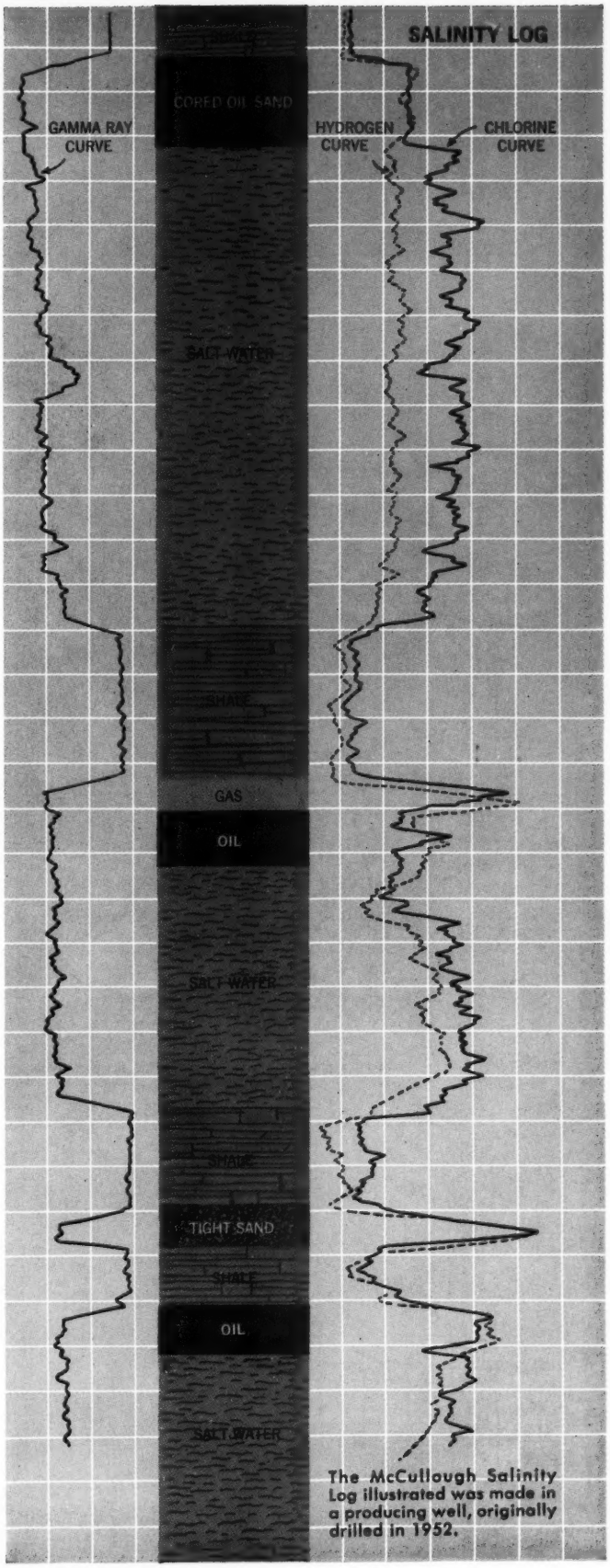
A "chlorine" curve and a "hydrogen" curve are recorded simultaneously at the same depth elevation with a single detector. These curves are compared to indicate the amount of salt, NaCl in particular, that is present in the formations being investigated. In potential oil bearing formations the absence of salt is indicative of the presence of oil.

The recording of the two curves simultaneously is considered essential. It eliminates the possibility of a depth discrepancy between two curves which are recorded separately. It also insures the recording of information under identical physical conditions—of extreme importance in interpreting the two curves.

A higher counting rate and greater instrument efficiency allows an increased spacing (23½ in.) between the source and the Scintillometer. This provides the added benefit of a proportionately larger zone of investigation.

Take a look at these features:

- **Distinguishes between salt water and oil in liquid bearing formations.**
- **Determines the degree of salinity in formation fluid.**
- **Identifies salt water zones that must be blanked off.**
- **Makes possible water saturation calculations for potential oil bearing zones.**
- **Shows salt water and oil zone contact under suitable conditions.**
- **Aids in determining gas/oil contact.**
- **Helps determine if it is economically practical to set casing on new completions.**
- **Aids in evaluating correct depth to set casing string.**
- **Accurately re-evaluates old wells to locate potential cased-off production.**
- **A reliable tool for porosity determination.**



The McCullough Salinity Log illustrated was made in a producing well, originally drilled in 1952.

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